

Title (en)
AMBIENT AIR PURIFIER WITH HUMIDIFICATION AND DEHUMIDIFICATION

Title (de)
UMGEBUNGSLUFTREINIGER MIT BEFEUCHTUNG UND ENTFEUCHTUNG

Title (fr)
PURIFICATEUR D'AIR AMBIANT À HUMIDIFICATION ET DÉSHUMIDIFICATION

Publication
EP 3097361 A1 20161130 (EN)

Application
EP 15702904 A 20150119

Priority
• US 201461929227 P 20140120
• US 2015011918 W 20150119

Abstract (en)
[origin: WO2015109283A1] Indoor air is purified using a purifying solution in an arrangement capable of removing formaldehyde and other pollutants, such as, for example, particulates. The arrangement can prevent re-vaporization of volatile compounds and can generate air that has been humidified or dehumidified. In one approach, incoming air is contacted with the purifying solution in a packed bed.

IPC 8 full level
F24F 3/14 (2006.01); **F24F 8/133** (2021.01); **F24F 8/117** (2021.01)

CPC (source: EP KR US)
B01D 47/14 (2013.01 - EP KR US); **B01D 53/1412** (2013.01 - KR US); **B01D 53/1487** (2013.01 - KR US); **B01D 53/1493** (2013.01 - KR US); **F24F 3/14** (2013.01 - EP KR US); **F24F 5/0042** (2013.01 - EP KR US); **F24F 6/12** (2013.01 - EP KR US); **F24F 8/133** (2021.01 - EP KR US); **B01D 2247/08** (2013.01 - EP KR US); **B01D 2247/107** (2013.01 - EP KR US); **B01D 2252/103** (2013.01 - US); **B01D 2252/60** (2013.01 - US); **F24F 8/117** (2021.01 - EP KR US); **F24F 2006/008** (2013.01 - EP KR US); **Y02A 50/20** (2017.12 - EP KR US)

Citation (search report)
See references of WO 2015109283A1

Cited by
CN111380117A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2015109283 A1 20150723; EP 3097361 A1 20161130; KR 20160111949 A 20160927; US 2015202563 A1 20150723;
US 2018085706 A1 20180329; US 9839872 B2 20171212

DOCDB simple family (application)
US 2015011918 W 20150119; EP 15702904 A 20150119; KR 20167022221 A 20150119; US 201514599881 A 20150119;
US 201715809469 A 20171110